

March 8 - March 14, 2002

The Terra spacecraft is in nominal mode. All instruments are in nominal science mode.

A 21-second Drag Make-up Maneuver was successfully executed on March 13, 2002. The fifth Inclination Adjust Maneuver in the required set of six is scheduled for March 19. The Command Authorization Meeting for this maneuver will take place on March 18.

The third in a series of tests using Terra to simulate the Aqua science data load on the Polar Ground Network was completed during the peak of activity of the STS-109 HST Servicing Mission. The test was highly successful, with approximately 96 percent of Terra science data being captured via the Ground Network. The next Ground Network test is scheduled to be conducted from April 8-10.

While issuing real-time commands for the execution of a Solid State Recorder (SSR) science data playback, a command bit flip occurred after a command had been accepted and processed via the spacecraft Command and Telemetry Interface Unit (CTIU). Several non-contiguous bits apparently flipped within a register of the SSR, resulting in the MODIS Buffer Overwrite function being ENABLED. The Terra Flight operations Team's On-line Engineer commanded the MODIS Buffer back to its original DISABLED configuration, and successfully executed the SSR science data playback. Nominal operations were resumed and no similar errors have occurred since. The Flight Operations Team is investigating with the assistance of spacecraft development contractor Subsystem Engineering staff.

There will be no MODIS roll maneuver in April as a result of the fact that the lunar geometry would require a roll angle greater than the maximum allowed by the mission rules.

Terra Plans:

Fifth Inclination Adjust Maneuver on March 19

Fourth Terra-based Aqua Ground Network Science Data Loading Test from April 8-10

